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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,731	12/08/2004	Claude Chapel	PF020064	6035

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EXAMINER

RUTKOWSKI, JEFFREY M

ART UNIT	PAPER NUMBER
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2473

MAIL DATE	DELIVERY MODE
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10/15/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/517,731	Applicant(s) CHAPEL ET AL.	
	Examiner JEFFREY M. RUTKOWSKI	Art Unit 2473	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 July 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 4-9 and 12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 4-9 and 12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 1-3 and 10-11 have been cancelled.

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/13/2009 has been entered.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. **Claims 4-9 and 12** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what corresponding structure is used to provide the means for managing the introduction or withdrawal of new gateway modules.

Examiner's Note

4. **Claim 9** is presented first in the following rejection because it is the only independent claim and all the other pending claims are dependent from this claim.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. **Claims 5, 7-9** are rejected under 35 U.S.C. 103(a) as being unpatentable over Akatsu et al. (US Pat 6,505,255), hereinafter referred to as Akatsu, in view of Foley (US Pg Pub 2001/0012319) and Movshovich et al. (US Pat 6,434,170), hereinafter referred to as Movshovich.

8. For **claim 9**, Akatsu discloses *external data sources* (items **582, 586 and 592**, see figure 5), *a local area network connecting peripherals* (IEEE 1394 network **568**), *a gateway* (item **504**) *for establishing connections between the local area network and the external data sources* (the gateway bridges the external networks and the IEEE 1394 network, see figure 5 and col. 6 lines 40-55).

9. Akatsu discloses a network where the peripherals are *chained together* via serial IEEE 1394 connections (see figure 5). In Akatsu's architecture, there exists a hierarchical set of gateways with a central gateway. For example, the computer **524** acts as a gateway for chain 2 and the TV **508** acts as a gateway for chain 1. The home gateway **504** is a gateway for each chain. Akatsu does not disclose the use of a scalable gateway. Foley discloses *the gateway being scalable such that the gateway is distributed among some peripherals called gateway*

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modules (gateway functionality is distributed among conventional network clients in a network, see paragraphs 0113-0114), *the gateway modules being chained together* (figure 5 of Akatsu shows that the network clients or peripherals are chained together. Also, Foley discloses the distributed gateways are chained together via POTS wiring **1607**, see paragraph 0113). It would have been obvious to a person of ordinary skill in the art at the time of the invention to distribute gateway functionality to some of the nodes in Akatsu's invention to increase the overall throughput of the network by reducing the number of hops in the network via removing the need for the home gateway **504** (Foley, paragraph 0113).

10. The combination of Akatsu and Foley discloses *each gateway module comprising means for managing introduction or withdrawal of new gateway modules* (Akatsu's 1394 driver **820**, see col. 8 lines 62-68), *each gateway module comprising means to establish the complete connection between the local area network and the external data source independently of whether other gateway modules have established a connection with an external source* (Foley's distributed virtual gateway **1401** suggests each client that incorporates the gateway functionality is essentially an independent gateway since there is no signaling among nodes that implement the virtual gateway **1401**, see paragraphs 0094 and 0112-0114), *wherein each gateway module handles a plurality of isochronous channels on the local area network* (Akatsu's IEEE 1394 driver **820** is used to handle isochronous connections, see col. 8 lines 62-63 and col. 9 lines 60-65).

11. The combination of Akatsu and Foley discloses the use of *gateway modules*. Akatsu discloses the home gateway has functionality for MPEG filtering (see col. 8 line 55). Akatsu discloses part of the home gateway functionality is to manage incoming MPEG transport streams

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(see col. 11 lines 39-46). Akatsu does not disclose the use of a means for controlling.

Movshovich discloses the *means for controlling incoming data from a multiple program transport stream received from one external data source according to one request of a peripheral on the local area network and for sending the incoming data received from the one external data source to the local area network in order to reduce bandwidth occupation on the local area network* (demultiplexer **200** determines which transport packets are not part of the desired program. Packets that are not part of the desired program are discarded, which reduces bandwidth occupation. Packets that are part of the desired program are transmitted for further processing, see col. 7 lines 35-46). It would have been obvious to a person of ordinary skill in the art at the time of the invention to use Movshovich's demultiplexer in Akatsu's invention to enhance the distribution of multimedia information in the network (Movshovich, abstract).

12. For **claim 5**, Akatsu does not disclose the removal of packets from a MPTS. Movshovich discloses only packets that have a matching PID (packets that were requested) are forwarded by the PID match unit **314**, allowing a Single Program Transport Stream (SPTS) be formed from the Multi-Program Transport Stream (MPTS) [col. 6 lines 40-45, col. 7 lines 26-47, figure 3]. It would have been obvious to a person of ordinary skill in the art at the time of the invention to use Movshovich's demultiplexer in Akatsu's invention to enhance the distribution of multimedia information in the network [Movshovich, abstract].

13. For **claim 7**, Akatsu discloses *the local area network is compliant with IEEE-1394 protocol* (item 568 of figure 5).

14. For **claim 8**, Akatsu does not disclose the use of Digital Video Broadcasting (DVB). Movshovich's demultiplexer is used in DVB applications [col. 6 lines 60-64]. It would have

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been obvious to a person of ordinary skill in the art at the time of the invention to use Movshovich's demultiplexer in Akatsu's invention to enhance the distribution of multimedia information in the network [**Movshovich, abstract**].

15. **Claim 4** is rejected under 35 U.S.C. 103(a) as being unpatentable over Akatsu in view of Movshovich and Foley, as applied to **claim 9** above, and further in view of Kubota et al. (US Pat 6,353,613), hereinafter known as Kubota.

16. The combination of Akatsu, Movshovich and Foley does not teach a means for updating or a means for inserting. Kubota teaches the means for updating signalization tables by disclosing a controller unit **25** generates additional Program Specific Information (PSI) and Service Information (SI) on respective programs based upon packet identifier (PID). The controller **25** then generates a Program Map Table showing the PID values of the audio and video data [**col. 7 lines 17-34**] (means for updating signalization tables comprised in the incoming data). It would have been obvious to a person of ordinary skill in the art at the time of the invention to use Kubota's PMT table in Akatsu's invention to list all the PIDs for packets containing elements of a particular program.

17. Kubota also teaches the means for inserting modified signalization table limitation by disclosing the controller **25** also packets and outputs the generated PMT table [**col. 7 lines 17-34**] (means for inserting the modified signalization tables in the stream sent to the local area network). It would have been obvious to a person of ordinary skill in the art at the time of the invention to packet and transmit the PMT table according to Kubota to allow other devices to locate the respective video and audio information.

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18. **Claim 6** is rejected under 35 U.S.C. 103(a) as being unpatentable over Akatsu in view of Movshovich and Foley, as applied to **claim 9** above, and further in view of Hoffberg (US Pat 6,850,252).

19. For **claim 6**, the combination of Akatsu, Movshovich and Foley does not teach a means to guarantee copy protection. Hoffberg teaches an intelligent electronic appliance **[abstract]** that can be used to aid in copy protection, serial copy management and a pay-per-view royalty collection system **[col. 160 lines 8-11]**. The copy protection is provided via anti-copy encryption **[col. 170 lines 20-30]** (wherein it has means to guarantee a copy protection of the data coming from the external source). It would have been obvious to a person of ordinary skill in the art at the time of the invention to use an intelligent device with copy protection functionality in Akatsu's invention to keep users from pirating copyrighted materials.

20. **Claim 12** rejected under 35 U.S.C. 103(a) as being unpatentable over Akatsu in view of Foley and Movshovich as applied to **claim 9** above, and further in view of Coupe et al. (US Pg Pub 2002/0067718), hereinafter referred to as Coupe.

3. For **claim 12**, the combination of Akatsu, Foley and Movshovich disclose a demultiplexer **200** that contains a PID match unit **314** (Movshovich, col. 7 lines 40-45). The combination of Akatsu, Foley and Movshovich does not disclose the use of a means for filtering. Coupe discloses a PID filter **14** (means for filtering) that is used in the creation of a partial transport data stream **[0030]**. The PID filter **14** removes unwanted packets from an incoming data stream, leaving gaps in the partial transport stream **[0027, 0030]**. Since the partial transport stream has gaps, Coupe suggests the packets of the partial stream occupy the same temporal location as corresponding packets in the multiple transport stream. It would have been obvious

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to a person of ordinary skill in the art at the time of the invention to use Coupe's PID filter in Akatsu's invention to remultiplex a filtered content stream with new data in real-time [**Coupe, title**].

Response to Arguments

21. Applicant's arguments with respect to **claims 4-9 and 12** have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEFFREY M. RUTKOWSKI whose telephone number is (571)270-1215. The examiner can normally be reached on Monday - Friday 7:30-5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kwang Yao can be reached on (571) 272-3182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Jeffrey M Rutkowski/
Examiner, Art Unit 2473

/KWANG B. YAO/

Supervisory Patent Examiner, Art Unit 2473